

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
4 August 2005 (04.08.2005)

PCT

(10) International Publication Number
WO 2005/070947 A1

(51) International Patent Classification⁷: **C07H 19/16**

(21) International Application Number:
PCT/GB2005/000183

(22) International Filing Date: 19 January 2005 (19.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0401292.8 21 January 2004 (21.01.2004) GB

(71) Applicant (for all designated States except US): **CAM-
BRIDGE BIOTECHNOLOGY LIMITED** [GB/GB];
P.O. Box 230, Cambridge CB2 1XJ (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **OUZMAN, Jacque-
line, Valerie, Anne** [GB/GB]; Cambridge Biotechnology
Limited, P.O. Box 230, Cambridge CB2 1XJ (GB).

(74) Agent: **THORNTON, Neil; Reddie & Grose, 16**
Theobalds Road, London WC1X 8PL (GB).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: **SYNTHESIS OF SPONGOSINE**

(57) Abstract: Reaction of 1-*O*-acetyl-2,3,5-tri-*O*-benzoyl- β -D-ribofuranose with 2-methoxyadenine to form 9-(2',3',5'-tri-*O*-benzoyl- β -D-ribofuranosyl)-2-methoxyadenine, then deprotection of the 9-(2',3',5'-tri-*O*-benzoyl- β -D-ribofuranosyl)-2-methoxyadenine to form spongosine is described. Synthesis of intermediates for use in the synthesis of spongosine is also described.

WO 2005/070947 A1